

CUMBERLAND RIVER BOARD

Eleventh Annual Report for the year ended 31st March, 1962

Chairman of the Board :

JOHN ERNEST HOLLIDAY, Esq., J.P.

(To January, 1962)

Major EDWIN THOMPSON, O.B.E., F.L.A.S.

(From February, 1962)

Vice-Chairman :

Major EDWIN THOMPSON, O.B.E., F.L.A.S.

(To February, 1962)

Major CHARLES SPENCER RICHARD GRAHAM

(From February, 1962)

**RIVER BOARD HOUSE
LONDON ROAD, CARLISLE, CUMBERLAND
TELEPHONE : CARLISLE 25151/2**

NOTE

The Cumberland River Board Area was defined by the Cumberland River Board Area Order, 1950, (S.I. 1950, No. 1881) made on 26th October, 1950. The Cumberland River Board was constituted by the Cumberland River Board Constitution Order, 1951, (S.I. 1951, No. 30). The appointed day on which the Board became responsible for the exercise of the functions under the River Boards Act, 1948, was 1st April, 1951.

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PART I GENERAL

Chairman of the Board :

JOHN ERNEST HOLLIDAY, Esq., J.P.

(Died January, 1962)

Major EDWIN THOMPSON, O.B.E., F.L.A.S.

(From February, 1962)

Vice-Chairman :

... Major EDWIN THOMPSON, O.B.E., F.L.A.S.

(To February, 1962)

Major CHARLES SPENCER RICHARD GRAHAM.

(From February, 1962)

Members of the Board :

- (a) Appointed by the Minister of Agriculture, Fisheries and Food and by the Minister of Housing and Local Government.

Wilfrid Hubert Wace Roberts, Esq., J.P. Desoglin, West Hall, Brampton, Cumb.

- (b) Appointed by the Minister of Agriculture, Fisheries and Food to represent :

- (i) Drainage Boards and that portion of the River Board Area for which Drainage Boards might be, but have not been, established.

Joseph Jackson Bell, Esq., O.B.E.,
A.R.I.C.S., M.R.S.H.

Roewath, Raughton Head, Carlisle.

Major Charles Spencer Richard Graham

Crofthead, Longtown, Cumberland.

Derek Armstrong Pattinson, Esq. ...
F.R.I.C.S., F.L.A.S.

Estate Office, Lowther, Penrith, Cumb.

John Hodgson Read, Esq. ...

Holme House, Wetherel, Carlisle.

John Rowntree Slack, Esq. ...

Mealo House, Allonby, Maryport, Cumb.

Major Edwin Thompson, O.B.E., ...
F.L.A.S.

Market Place, Keswick, Cumberland.

James Westoll, Esq., J.P. ...
(ii) Fishery Interests.

Dykeside, Longtown, Cumberland.

Francis H. Ahier, Esq., M.Inst.M.M., ...
A.C.S.M., F.G.S.
(To November, 1961)

9, Hensingham Road, Whitehaven,
Cumberland.

J. P. Hayton, Esq. ...
(From November, 1961)

13, Greengarth, Clifton, Workington,
Cumberland.

Sir Gerald G. Ley, Bt., T.D. ...
(From November, 1961)

Lazonby Hall, Penrith, Cumberland.

Peter John Liddell, Esq., D.S.C., M.A.,
F.Inst.D.

Moorhouse Hall, Warwick-on-Eden,
Carlisle.

John Alexander Reddie, Esq., F.R.I.C.,
F.R.M.S.
(To November, 1961)

Lodore Hotel, Borrowdale, Keswick,
Cumb.

William W. Routledge, Esq., F.C.A.	"Knightstone," 24, Brampton Road, Carlisle.
E. H. Fleming Smith, Esq., T.D., F.R.I.C.S., F.L.A.S. (From November, 1961)	Hawksdale Hall, Dalston, Carlisle.
John Topping Stafford, Esq.	The Cottage, Bowness-on-Solway, Kirkbride, Carlisle.
Alexander Charles Graham Thomson, Esq., J.P. (To November, 1961)	"Viewfield," Stanwix, Carlisle.
Thomas Wilkinson, Esq.	3, Brisco Mount, Egremont, Cumb.
(Died May, 1961)	
J. L. Wilson, Esq.	1, Old Smithfield, Egremont, Cumb.
(From November, 1961)	
William Wilson, Esq., M.B.E.	"Cuilfail", Gosforth, Seascale, Cumb.

Appointed by the County Council of Cumberland.

J. Askew, Esq.	31, Ashfield Road, Workington, Cumb.
(f) T. M. Brough, Esq.	The Bungalow, Port Carlisle, Carlisle.
(From November, 1961)	
(g) Sir Charles Owen Butler, K.B.E., C.M.G., E.D.	"Crossways", Beacon Edge, Penrith, Cumberland.
Joseph Coulthard, Esq., A.R.I.C.S.	Mill Ellers, Dalston, Carlisle.
(c) George W. Davidson, Esq.	45, Scotch Street, Carlisle.
(d) J. Downes, Esq.	"White Ash", Lorton, Cockermouth, Cumberland.
(From November, 1961)	
(d) A. F. Fisher, Esq.	Brathay Hill, Setmurthy, Cockermouth, Cumberland.
(To November, 1961)	
Commander Frederick Middleton Fox, A.F.C., V.R.D., R.N.V.R. (Rt.)	Fawe Park, Keswick, Cumberland.
(e) E. Holliday, Esq.	110, Tomlin Avenue, Mirehouse, White- haven, Cumberland.
(To November, 1961)	
John Ernest Holliday, Esq., J.P.	The Gale, Silloth, Cumberland.
(Died January, 1962)	
Nigel F. Hudleston, Esq.	Hutton John, Dacre, Penrith, Cumb.
(c) W. Jackson, Esq.	Greensyke, Houghton, Carlisle.
Captain Llewellyn Evan Hugh Llewellyn, C.B., O.B.E., D.L., R.N.	"Glenwood", Ravenglass, Cumberland.
J. Lowther, Esq.	The Grove, Kirkbride, Carlisle.
(e) Thomas J. Rawling, Esq.	"Overdale", Linethwaite, Moor Row, Cumberland.
(f) R. J. Walton Slack, Esq.	Hartlow, Silloth, Cumberland.
(To November, 1961)	
(a) W. Stephenson, Esq.	44, The Gardens, Whitehaven, Cumb.
(From November, 1961)	

- (b) Robert Townsley, Esq. 12, Roper Terrace, Salterbeck, Workington, Cumberland.
- (b) William Armstrong Walker, Esq., J.P. Croft House, Elizabeth St., Workington, Cumberland.

- (a) Nominated by Whitehaven Borough Council
- (b) " " Workington Borough Council.
- (c) " " Border Rural District Council.
- (d) " " Cockermouth Rural District Council.
- (e) " " Ennerdale Rural District Council.
- (f) " " Wigton Rural District Council.
- (g) " " Penrith Urban District Council.

Appointed by the County Council of Westmorland.

- Leo Waddington, Esq. Casterton Hall, Casterton, By Carnforth, Lancashire.
(To November, 1961)
- John Valentine Allen, Esq., O.B.E. Rooking Ghyll, Patterdale, Penrith, Cumberland.
(From November, 1961)
(To March, 1962)

Appointed by the County Borough Council of Carlisle.

- Leonard Birtles, Esq. 10, Beck Road, Belle Vue, Carlisle.
- Archibald Harry Gladstone Boggis, Esq. 10, Scotland Road, Carlisle.
- Irving Burrow, Esq. 31, Lamb Street, Upperby, Carlisle.
- Ritson Graham, Esq., J.P. 24, Buchanan Road, Currock, Carlisle.
- Richard Dennis Harrison, Esq. "Eden Lea", Millcroft, Brampton Road, Carlisle.
- Captain Clement Norman Matthews, M.B.E., J.P. Little Bank, Stanwix, Carlisle.
- Bernard Cook McCaffrey, Esq. 31, Sheehan Crescent, Raffles, Carlisle.

It is with very deep regret that the Board records the deaths during the year of Mr. J. E. Holliday, Mr. T. Wilkinson and Lt. Col. K. Anderson (Co-opted Member).

Mr. Holliday devoted a large part of his life to public service in many organisations. Amongst the many offices he held at the time of his death were Chairman of the Board from February, 1958; Chairman of the Western Divisional Committee from April, 1951; Justice of the Peace; County Alderman, and Chairman of the Wigton Rural District Council.

Mr. Wilkinson had been a member of the Board from September, 1956, and Lt. Col. Anderson was appointed a co-opted member of the Eastern Divisional Committee in February, 1958.

The Board wishes to place on record its appreciation of the services of each of these members.

COMMITTEES

FINANCE AND GENERAL PURPOSES COMMITTEE

Chairman :

Wilfred H. W. Roberts, Esq.

Vice-Chairman :

Ritson Graham, Esq.

F. H. Ahier, Esq.

(To November, 1961)

J. V. Allen, Esq.

(From November, 1961)

(To March, 1962)

A. H. G. Boggis, Esq.

Sir Owen Butler.

J. Coulthard, Esq.

Commander F. M. Fox.

N. F. Hudleston, Esq.

(From November, 1961)

W. Jackson, Esq.

P. J. Liddell, Esq.

(From November, 1961)

Captain C. N. Matthews.

D. A. Pattinson, Esq.

T. J. Rawling, Esq.

J. H. Read, Esq.

J. A. Reddie, Esq.

(To November, 1961)

W. W. Routledge, Esq.

(From November, 1961)

J. R. Slack, Esq.

R. J. W. Slack, Esq.

(To November, 1961)

E. H. Fleming Smith, Esq.

(From November, 1961)

A. C. G. Thomson, Esq.

(To November, 1961)

R. Townsley, Esq.

L. Waddington, Esq.

(To November, 1961)

W. A. Walker, Esq.

J. Westoll, Esq.

W. Wilson, Esq.

The Chairman and Vice-Chairman of the Board, and the Chairman of each of the Divisional Committees (ex-officio).

EASTERN DIVISIONAL COMMITTEE

Chairman :

Major C. S. R. Graham.

Vice-Chairman :

James Westoll, Esq.

(To December, 1961)

Peter J. Liddell, Esq.

(From December, 1961)

J. V. Allen, Esq.

(From November, 1961)

(To March, 1962)

J. J. Bell, Esq.

L. Birtles, Esq.

A. H. G. Boggis, Esq.

T. M. Brough, Esq.

(From November, 1961)

I. Burrow, Esq.

Sir Owen Butler.

J. Coulthard, Esq.

G. W. Davidson, Esq.

R. Graham, Esq.

R. D. Harrison, Esq.

N. F. Hudleston, Esq.

(From November, 1961)

W. Jackson, Esq.

Sir Gerald G. Ley, Bt.

(From November, 1961)

P. J. Liddell, Esq.

Captain C. N. Matthews.

B. C. McCaffrey, Esq.

D. A. Pattinson, Esq.

J. H. Read, Esq.

W. W. Routledge, Esq.

J. T. Stafford, Esq.

A. C. G. Thomson, Esq.

(To November, 1961)

L. Waddington, Esq.

(To November, 1961)

J. Westoll, Esq.

Co-opted Members

Lt. Col. K. Anderson, M.C., T.D. (Died October, 1961)	...	Newton Reigny, Penrith, Cumberland.
The Hon. Michael Eden	...	Scaleby Castle, Carlisle.
Oscar George, Esq.	...	"Green Bank", Brough Sowerby, Kirkby Stephen, Westmorland.
R. T. W. Hewetson, Esq.	...	Stobars, Kirkby Stephen, Westmorland.
Captain J. G. Milne Home	...	Buccleuch Estates Ltd., Irvine House, Canonbie, Dumfriesshire.
Maj. Gen. Sir George Johnson, K.C.V.O., C.B., C.B.E., D.S.O.	...	Castlesteads House, Brampton, Cumb.
W. H. Lawson, Esq.	...	Corby Castle, Carlisle.
Sir Gerald G. Ley, Bt., T.D. (To November, 1961)	...	Lazonby Hall, Penrith, Cumberland.
S. C. Mathison, Esq.	...	1, Norfolk Road, Carlisle.
D. J. Thornton, Esq.	...	Old School House, Bampton Grange, Penrith, Cumberland.

The Chairman and Vice-Chairman of the Board and the Chairman of the Finance and General Purposes Committee (ex-officio).

WESTERN DIVISIONAL COMMITTEE

Chairman :

John E. Holliday, Esq.
(Died January, 1962)
Major Edwin Thompson.
(From February, 1962)

Vice-Chairman :

Major Edwin Thompson.
(To February, 1962)
John R. Slack, Esq.
(From February, 1962)

F. H. Ahier, Esq. (To November, 1961)	Captain C. N. Matthews.
J. Askew, Esq.	T. J. Rawling, Esq.
T. M. Brough, Esq. (From November, 1961)	J. A. Reddie, Esq. (To November, 1961)
J. Downes, Esq. (From November, 1961)	J. R. Slack, Esq.
A. F. Fisher, Esq. (To November, 1961)	R. J. W. Slack, Esq. (To November, 1961)
Commander F. M. Fox.	E. H. Fleming Smith, Esq. (From November, 1961)
J. P. Hayton, Esq. (From November, 1961)	W. Stephenson, Esq. (From November, 1961)
E. Holliday, Esq. (To November, 1961)	R. Townsley, Esq.
N. F. Hudleston, Esq. (To November, 1961)	W. A. Walker, Esq.
J. Lowther, Esq.	T. Wilkinson, Esq. (Died May, 1961)
Captain L. E. H. Llewellyn.	J. L. Wilson, Esq. (From November, 1961)
	W. Wilson, Esq.

Co-opted Members

J. Baird, Esq.	Wampool, Kirkbride, Carlisle.
S. Dubner, Esq. (Resigned August, 1961)	National Coal Board, Bankfield, Work- ington, Cumberland.
G. A. Marley, Esq. (Resigned October, 1961)	Fell Close, Embleton, Cockermouth, Cumberland.
T. W. Pears, Esq.	Wood Farm, Thursby, Carlisle.
J. A. Reddie, Esq. (From November, 1961)	Lodore Hotel, Borrowdale, Keswick, Cumberland.
R. J. W. Slack, Esq. (From November, 1961)	Hartlow, Silloth, Cumberland.

The Chairman and Vice-Chairman of the Board, and the Chairman of the Finance and General Purposes Committee (ex-officio).

PART II

PARTICULARS OF STAFF

(as at 31st March, 1962)

(1) CHIEF OFFICERS

Clerk of the Board and Financial Officer	RALPH BIRKETT, F.C.C.S.
Chief Engineer and Pollution Prevention Officer	A. J. COLLINS, B.Sc., A.M.I.C.E., A.M.I.W.E.

(2) OTHER OFFICERS

CLERK'S DEPARTMENT

1 Deputy Clerk and Financial Officer	A.P.T. IV.
1 Rating Assistant	Clerical Division Grade II.
1 Accountancy Assistant	do.
1 Rate Collector and Clerical Assistant	General Division.
2 Shorthand Typists	Shorthand Typists' Scale.
2 Junior Clerks (vacant)	General Division.

ENGINEER'S DEPARTMENT

1 Deputy Engineer	Outside A.P.T. Grades.
3 Assistant Engineers	A.P.T. III.
1 Surveying Assistant	Miscellaneous IV.
2 Clerks	General Division.

(3) WATER BAILIFFS

- 2 Divisional Fisheries Inspectors (Full-time).
- 13 Water Bailiffs (Full-time).
- 35 Honorary Bailiffs (unpaid).

(4) LABOUR FORCE

- 55 Workmen.

PART III

INFORMATION AS TO WATER RESOURCES

SECTION 1. RAINFALL.

The Board maintains rainfall gauges at the following places :—

Cumberland, North-East—Lamperts, Gilsland.

—Longtown C.A.D.

East Fells —Renwick.

Central —Skelton.

South-West—Wasdale Head.

Westmorland, Eden Valley—Mallerstang.

—Appleby Castle.

—Temple Sowerby.

North-West—Patterdale.

Regular observations have been kept at all these stations, with the exception of the one at Longtown C.A.D., and records are sent to the Meteorological Office.

Rainfall records have also been supplied to the Board by observers at :—

Cumberland—Newton Rigg Farm School, Penrith.

Hutton John, Penrith.

Westmorland—Greenside Mine, Glenridding (to 31st Dec., 1961).

All these records are kept at the Board's Head Office. A map of the River Board Area showing the distribution of rainfall is supplied monthly by the Meteorological Office.

SECTION 2. CHARACTERISTICS OF RIVERS AND STREAMS.

At the end of March, 1962, there were four primary gauging stations completed and work had commenced on the building of a fifth, these were :—

(1) River Eden, Warwick Bridge—continuous record.

(2) River Derwent, Camerton—continuous record.

(3) River Eamont, Udford—record since end of April, 1961.

(4) River Esk (Border), Netherby—record since August, 1961.

(5) River Lowther, Eamont Bridge—construction commenced.

All these stations consist of a level recorder giving a continuous record together with provision for current meter observations. Good progress has been made with the building up of stage discharge curves for the first three of the stations by a series of current meter surveys.

When Manchester Corporation were preparing the scheme for the abstraction of water from Lake Ullswater they installed two continuous level recorders, one on the steamer pier at Pooley Bridge and the other on the steamer pier at Glenridding. The Board agreed to provide the necessary service on these recorders, such as changing the charts, and the records are kept at the Board's Head Office.

Also, there have been regular daily readings of the water level of Bassenthwaite Lake, of the River Eden at Willow Holme, Carlisle, and at Warwick Hall, and of the River Cocker at Cockermouth. An automatic temperature recorder has been used to provide a record of the temperature of the River Eden at the North British Bridge, Carlisle.

All these records are kept at the Board's Head Office.

SECTION 3. GAUGING BY PERSONS OTHER THAN THE BOARD.

Manchester Corporation have maintained records of flow at the gauging stations at Thirlmere and at Thornthwaite on the Haweswater Beck. These records are returned through the Board to the Surface Water Survey and are published in the Surface Water Year Book of Great Britain.

SECTION 4. ABSTRACTION OF WATER.

A number of problems have confronted the Board during the year in connection with the ever growing demand for water from the rivers and lakes within the area and much thought and consideration has had to be given in order to find acceptable solutions.

The Board has indeed been concerned for some time that there would be a demand within the County of Cumberland for large quantities of water for any new industries which might be attracted to the County. With this in mind the Board initiated discussions with the Cumberland Development Council Ltd., and later with the Cumberland County Council in order to consider what might be necessary for the provision of additional water supplies for any such new industries with a view to minimising the danger of conflict of interests or undue delays at a later stage.

Discussions were held with the West Cumberland Water Board on their proposals to seek powers to increase the abstraction from Crummock Water from 4 to 7 million gallons a day.

The River Board decided not to object to this proposal and also to give its consent if the Water Board made application to the Minister to limit the compensation water to the existing rate of 5 million gallons a day.

Manchester Corporation decided to proceed with the fifth and final instalment of the Haweswater Scheme, that of Wet Sleddale. The compensation water provisions are set out in the Manchester Corporation Act of 1919, but further consideration had to be given to the division of this compensation water and in particular the proportion to flow from Wet Sleddale. The Board finally approved the Manchester Corporation (Wet Sleddale) Water Order, 1962.

In the late summer of 1961, Manchester Corporation produced proposals for taking water from Lake Ullswater and to pump this water through new treatment works into Haweswater. The Board, after discussion with representatives of the Manchester Corporation Waterworks Committee, and much consideration, decided that the bill which the Corporation promoted should be opposed, and to give effect to this decision lodged a petition in the House of Lords.

The Bill however, was not allowed by the House of Lords to proceed with the Waterworks clauses.

The United Kingdom Atomic Energy Authority sought to take extra water from the River Calder. After discussion with the Authority the Board decided not to object to the proposals provided that there was left in the River Calder an acceptable residual flow.

During the year Carlisle Corporation completed their works in connection with the new intake in the River Eden at Wetheral and they are now in a position to abstract the approved quantity of water as the need arises.

In this area of relatively large rainfall there has been no significant extension of the taking of water from the rivers for land irrigation.

SECTION 5. RAINFALL AND RIVER FLOW.

Rainfall was generally above average. The excess of rain was particularly seen in the summer months of July and August, 1961, in October, 1961, and in January, 1962. May and June, 1961, were comparatively dry as was also March, 1962.

The wet period at the end of July and in early August produced large floods in the rivers in the central lakeland area, such as the Upper Derwent. In January floods were widespread though not of maximum intensity.

PART IV

LAND DRAINAGE

SECTION I. CAPITAL WORKS.

(a) GRANT AIDED SCHEMES IN PROGRESS DURING THE YEAR

1. RIVER PETTERIL, CARLISLE, IMPROVEMENT SCHEME.

This improvement of the River Petteril, with an estimated cost of £26,142 consists of an entirely new channel 2,330 feet long with two cascades leading to the Warwick Road Bridge, improvement of the existing channel for a short distance upstream and from the Warwick Road Bridge to the River Eden. The construction of the new channel has made necessary a new footbridge and the diversion of several lengths of sewer, for which works a separate contract was let. The main channel excavation, construction of cascades and one accommodation bridge was all carried out by direct labour. Most of the work was completed by the end of the summer, 1961, but during the following winter serious flooding caused a considerable amount of damage in the new channel and upstream. Much of this had been repaired by the 31st March, 1962, when the total expenditure on the scheme was £25,257. It is anticipated that there will be an expenditure of £1,000 in excess of the original estimate and that all the work will be completed by the early summer.

2. RIVER LYVENNET — MAULDS MEABURN, WESTMORLAND.

This scheme for the improvement of a length of the River Lyvennet, including a short new-cut, was estimated to cost £2,332 and was approved for grant aid. A start was made in September, 1961, and work continued as weather conditions permitted during the autumn and winter. But progress was slow and difficult with frequent flooding and very bad site conditions for long periods. As a result on the 31st March, 1962, expenditure had reached £2,583 with still an amount of work remaining to be done. An application has been made for grant aid on an estimated excess expenditure of £750.

3. RIVER WAVER — LESSONHALL.

This scheme to improve a length of the River Waver downstream of Lessonhall is estimated to cost £7,000. The length concerned runs alongside a highway and the Cumberland County Council have promised a contribution of one fifth of the cost to a maximum of £1,300. The scheme was approved for grant aid in November, 1961, and a start was made in the middle of March, 1962. Expenditure to March 31st was £293.

4. GAUGING STATIONS.

(a) RIVER ESK (BORDER), NETHERBY.

Work on the construction of this gauging station was commenced in the previous year and was substantially completed in early July. The station consists of a recorder giving a continuous record of water level together with suspension gear for a current meter. The total expenditure was £880.

(b) RIVER LOWTHER — EAMONT BRIDGE.

This station will consist of a continuous level recorder and current meter suspension gear. To the 31st March, 1962, expenditure on this station—mainly for recorders and suspension gear was £272. It is expected that actual construction will commence very soon after the 1st April.

(b) FUTURE WORKS SCHEMES APPROVED IN PRINCIPLE.

1. RIVER EDEN (BOLTON WILLOWS) IMPROVEMENT SCHEME.

Reference was made to this scheme in last year's report when it was said that it had received approval in principle by the Board. The scheme was revised with an estimated cost of £3,500 and approved in this form by the Board for submission to the Ministry of Agriculture, Fisheries and Food for consideration of grant aid. It is designed to prevent overflow of banks and consequent flooding of agricultural land.

2. RIVER ELLEN (BRAYTON DOMAIN) IMPROVEMENT SCHEME.

This scheme consists in the main of a new cut for the River Ellen so as to reduce flood levels and in consequence overflow of banks. The estimated cost is £2,153 and has been approved in principle for submission to the Ministry of Agriculture, Fisheries and Food for consideration of grant-aid.

3. RIVER PETTERIL (PART III) — CARLISLE.

Further progress on the detailed design of this scheme, which effects a length of the river within the boundaries of Carlisle, has been held up because of other work but the proposed improvement is in the Board's programme of future works.

SECTION 2. MAINTENANCE.

(a) NORTH WESTERN AREA.

1. RIVER WAMPOOL.

A considerable amount of work in widening, removal of gravel and easing of bends has been done during the year between Moorhouse Mill and upstream of Micklethwaite Bridge. Excavator No. 12 worked in April and May and from November to the middle of March, and Excavator No. 13 from the middle of September until the end of March. These operations have resulted in a much appreciated improvement; the reduction in flooding being marked during the wet winter months.

2. RIVER WAVER.

Work has been concentrated on the length between Raby Grange and Ellercar where Excavator No. 11 has been almost continually at work in widening, removal of slips and accumulated silt. Bad weather caused delays and also hampered progress by making the banks unstable. Timber revetment has had to be used in places and one partially collapsed accommodation bridge has been rebuilt.

3. CRUMMOCK BECK, HOLME DUB AND LANGRIGG BECK.

The usual annual cleaning has been carried out during the year.

4. CAUSEWAYHEAD BECK AND BLEA GUTTER.

These watercourses were cleaned by hand mainly in August and September although some work which had been left was done in January.

5. BAMPTON BECK AND POW BECK (NORTH).

Bampton Beck was cleaned between December and February.

Pow Beck had become seriously blocked with gravel and Excavator No. 1 did much useful work in lowering the bed level in December and January.

6. WAVERTON MILL STREAM.

Cleaning was done in January.

7. RIVER WIZA.

In October Excavator No. 13 was used to remove accumulated silt and to slope back the banks between Dockray Hall and its outfall. Two low places in the right flood bank were also raised and widened.

8. SNECKYEAT BECK (SILLOTH).

This watercourse was cleaned in July and August.

9. BLACK DUB.

An improvement scheme was carried out on this watercourse between August, 1958, and March, 1960. As is often the case weed growth has become greater; cleaning was commenced in June and proceeded until September.

10. BECKFOOT BECK, MAWBRAY BECK, JORDAN BECK, CROSS BECK, CROOKHURST BECK, CUDDYCROSS BECK, MEALO BECK, BRUNSOW BECK, SCAD BECK.

These are small but important lengths of main river draining a large part of the Allonby Bay and River Ellen Internal Drainage District. Weed cutting, repair of revetments, removal of slips and accumulations of silt have been done over the entire lengths. A portion of Scad Beck was deepened to give a better outfall for a tributary stream. The separate sea outfalls gave a certain amount of trouble and during the year the outfalls of Mealo Beck, Brunsow Beck, Beckfoot Beck and Crookhurst Beck, were twice cleared—once in April and again in October. A new door and headwall was also provided for Mealo Beck outfall and new doors for the outfalls of Brunsow Beck and Scad Beck.

11. RIVER ELLEN.

Towards the end of the previous year a dragline excavator was used to carry out widening and straightening of the channel between Ellen Villa and Arkelby Bridge. This work was continued and extended up to Aspatia East until the middle of September. In the course of the work gravel shoals have been removed and revetment replaced.

12. EEL SYKE BECK (MARYPORT).

The length between the railway and the main road was cleaned in November.

(b) CENTRAL AREA.

1. RIVER COCKER.

Excavator No. 2 continued to remove gravel shoals upstream of Lorton during April. The outfall of Hope Beck was also cleaned out and re-aligned.

2. NADDLE BECK.

Gravel was removed from under Rough How Bridge to give a better discharge to a large drain from Shoulthwaite. Banks were repaired from Rough How downstream towards Dale Foot. Urgent bank repairs following floods, were also necessary in August.

3. NEWLANDS BECK.

A large breach occurred in the bank at Little Braithwaite during a large flood on the 15th and 16th January when lengths of the flood embankment were overtopped, serious flooding resulted. A dragline excavator was used to remove accumulations of gravel and to restore the bank and this work continued into March.

4. POW BECK (CENTRAL).

Large quantities of gravel deposited in the upper lengths by the flood in January and the breaching of the banks of Newlands Beck were removed in February.

5. ST. JOHN'S BECK.

Accumulations of gravel were removed by dragline excavator and the banks around Bramcrag repaired during May, June and July.

6. UPPER DERWENT.

An old stone bridge at Rosthwaite was damaged by floods at the end of July and immediate repairs were carried out which effectively saved the bridge. The cost of repairs was shared by the Board, the Cumberland County Council and the National Trust.

7. RIVER GLENDERAMACKIN.

Banks were repaired and gravel shoals removed in September downstream of Mill Bridge, Threlkeld. Further upstream between Scogarth and Scales the channel was cleaned in November and December.

8. GRAVEL TRAPS.

The gravel traps at the Mines, Threlkeld, and those at Beckthorns and Fornside, St. John's-in-the-Vale, were emptied during October.

(c) SOUTH WESTERN AREA.

1. RIVERS IRT AND BLENG.

Two gabion groynes were built to protect the right bank at Irton Hall on the River Irt.

On the River Bleng repairs of the banks upstream of Bleng Foot were carried out between September and November. In December banks were cleared of brushwood.

2. MILLERGILL BECK.

Weed clearance between the outfall to the River Annas and the railway was made during May.

3. ESKMEALS BECK.

Weed cutting and brushing of the banks were done in June and July.

4. RIVER MITE.

Brushwood was cleared from the banks between Miteside and Walkmill in December and January.

5. POW BECK (ST. BEES).

The large accumulations of weed were cleared during July, August and September.

6. RIVER KEEKLE.

A badly eroded corner at Weddicar was repaired at the cost of the land-owner concerned.

7. RIVER ESK.

Bank protection of a length near Hinning House Bridge was secured by the use of stone. Repairs were carried out to the flood embankment downstream of Hinning House in February.

(d) EASTERN AREA.

1. RIVER PETTERIL.

The work of restoring the improved channel upstream of Plumpton, as reported in the last Annual Report, was continued in the neighbourhood of Plumpton Hall Farm from the end of May until the middle of September.

2. RIVER CALDEW.

The construction of gabion groynes to protect the bank downstream of Mosedale Bridge was carried out in April and May. Brushwood was cleared from the banks between Linewath and Carrhead.

3. BRUNSTOCK BECK.

Clearing of the channel of weeds and other obstructions was done between Houghton Bridge and Whitrigg Sough outfall.

4. CROOKS BECK (WARCOP).

The brushing of the banks and the clearing of weeds was done in October.

SECTION 3. WORK IN INTERNAL DRAINAGE DISTRICTS ADMINISTERED BY THE BOARD.

1. WAVER & WAMPOOL INTERNAL DRAINAGE DISTRICT.

The scheduled watercourses were cleared of weeds, accumulated silt was removed and banks were repaired where necessary. Nearly all this work had to be done by hand labour but greater use was made this year of chemical spraying for the control of weed growth and particularly of the growth of grass on the banks.

The Major Streams Improvement Scheme Part III was completed at a total cost of £18,999.

2. ALLONBY BAY & RIVER ELLEN INTERNAL DRAINAGE DISTRICT.

On all the scheduled watercourses weeds were cut, silt removed and banks repaired.

Barney Gill, near Maryport, was very considerably improved under a grant-aided scheme with the owners contributing the remaining portion of the cost. This watercourse will be in future maintained by the Board. The total cost of the improvement up to the 31st March, 1962, was £688, with just a very small amount of work remaining.

3. UPPER DERWENT INTERNAL DRAINAGE DISTRICT.

Work on the clearing of bushes and trees was done on a length of Sandy Beck—a tributary of the River Cocker. Accumulated gravel was also removed between Sandy Beck Bridge and a point about half a mile upstream.

Coledale Beck gravel trap at Braithwaite was emptied during March.

4. RIVER MARRON INTERNAL DRAINAGE DISTRICT.

A small amount of work was done at the end of March on the removal of gravel accumulation from Black Beck upstream of Ullock.

5. BRUNSTOCK BECK INTERNAL DRAINAGE DISTRICT.

Weeds were cut throughout the length of Whitrigg Sough.

SECTION 4. STATUTORY SCHEMES FOR INTERNAL DRAINAGE BOARDS.

No schemes have been prepared, submitted or approved during the year ending the 31st March, 1962, in relation to internal drainage boards under the Land Drainage Acts, 1930 and 1961.

PART V

FISHERIES

1. GENERAL REPORT ON THE SALMON, TROUT AND FRESHWATER FISHERIES

1. SALMON AND SEA TROUT.

(a) RIVER EDEN DISTRICT.

Angling Season : Salmon—15th January to 14th October.
Sea Trout—1st April to 14th October.

The angling season began only moderately and in the lower reaches access to the river was affected by an outbreak of foot and mouth disease. The returns of fish caught showed catches in January to be the lowest since 1954. February and March brought some improvement with better river conditions and salmon were being taken as far upstream as the confluence of the River Eamont. Several salmon were caught on fly in the lower Eamont early in April, which is unusual. During the remainder of the season salmon angling continued to be disappointing and, although there was a substantial run of grilse in August, weather and river conditions were generally unfavourable and the total catch by rod and line for the season was the lowest since 1956.

Catches by nets and fixed engines were only moderate in February but March was particularly good. The number of fish taken in June and July was the highest recorded—more than half the total for the season—and the season's catch was the second highest in the Board's records.

Sea trout were taken by Haaf Nets in the Solway earlier in the year than usual and there were improved runs in the river. When river conditions were suitable good catches were made at night.

The migration of salmon smolts was up to average.

Excellent stocks of salmon and a good number of sea trout were in the river for the spawning period and spawning was very satisfactory with fish well distributed. It was particularly noticeable that fish started spawning about three weeks earlier than usual. There was a substantial run of large late salmon from about 8th December onwards.

The number of season salmon rod licences fell from 429 (1960) to 399 (1961) but weekly and daily licences increased from 677 (1960) to 736 (1961).

(b) RIVER ESK (BORDER) DISTRICT.

Angling Season : Salmon—1st February to 31st October.
Sea Trout—1st April to 30th September.

Salmon angling began reasonably well on the opening day but the adverse weather prevailed too long and, although catches in February were above average, March and April were disappointing. The salmon season as a whole was not good and from returns made the total number of fish caught was the lowest since 1956.

These figures relate only to that part of the Esk within England as returns are not obtained for fish caught in Scotland.

There were excellent runs of sea trout and herling and these fish provided good sport.

The spawning season for both salmon and trout was very satisfactory.

The number of season salmon licences was the same as in 1960 but weekly and daily licences fell by 16.

(c) RIVER DERWENT DISTRICT.

Angling Season : Salmon—1st April to 31st October.

Sea Trout—3rd April to 31st October.

There were very few salmon anglers and probably fewer salmon in the first month of the season. Fish continued scarce during May but four were caught above Keswick in the second week, having travelled up on an earlier spate. An increase in water brought a run of fish into the lower reaches on 8th July and with river levels generally above normal in July and August there were further good runs of salmon. Catches in July were well above average but August, September and October did not yield as many fish as in some recent years. A lot of fish travelled quickly to the upper reaches and by mid-October some were up to Mungrisdale. Anglers in the Keswick area had good sport in the latter part of the season, although most fish were rapidly approaching spawning condition.

The average weight of fish caught by rod was the highest since 1954.

The fixed engines had their worst year since 1955, probably due to the high water conditions which enabled fish to ascend the weir and thereby avoid the trap.

The number of smolts descending the river was the smallest for many years.

A few sea trout had been caught in the Derwent in the Isel area by the end of May and a number of these fish were in the Cocker by early July, but few were being caught. They continued to be somewhat scarce in the Derwent during July but numbers increased from the beginning of August. These fish tended to be larger in size than in some previous years with many fish about 3 lbs. and an 8½ lbs. fish was caught at Workington.

There was a marked decline in activity by salmon poachers in July and August, usually the worst months in the lower reaches, probably due in some measure to the lack of opportunity resulting from fairly high water levels and a smaller number of sick fish.

It was a good year for spawning fish with more fish in November and December than for some time. Most of the salmon which travelled up the Greta continued well up the Glenderamackin and there were only a few in St. John's Beck. The River Marron had an exceptional run of fish and the timber baulk fish pass which the Board placed on Branthwaite Weir was a great success.

The number of season salmon rod licences increased from 467 (1960) to 518 (1961) and weekly rod licences increased from 167 (1960) to 183 (1961).

(d) RIVER ELLEN DISTRICT.

Angling Season : Salmon—1st April to 31st October.
Sea Trout—3rd April to 31st October.

There is no salmon angling on this river.

There were good runs of sea trout throughout the season and the river fished well. A 6 lbs. sea trout was caught in the middle reaches. Fish are now able to pass up river much more easily following the damage by floods to the Netherhall Weir.

(e) SOUTH WEST CUMBERLAND DISTRICT.

Angling Season : Salmon—1st April to 31st October.
Sea Trout—3rd April to 31st October.

It was a better than average season for the salmon anglers, although the largest proportion of the fish were taken from the River Ehen.

No fresh fish were reported during April or May in the Annas, Calder or Esk, and only a few in the Irt. There was comparatively little angling in the early weeks and conditions were poor. By the end of June the Esk contained a few salmon and a number of small sea trout; the Irt had a lot of fish but the Calder only a few. Salmon were not very plentiful in the Ehen and were mostly downstream of Egremont but there were sea trout in most parts of the river up to Ennerdale. Fish continued scarce in the Esk but they appeared plentiful in the middle and upper reaches of the Irt from the middle of August. Considerable numbers of fish were observed passing from the Ehen into Ennerdale Lake.

By early October there had been a good run of fish in the Annas, although angling generally was poor; the Irt had a fair stock of fish in the lower pools but catches were few; there had been very good runs of sea trout in the Ehen and there was a fair number of salmon up to Ennerdale. A lot of anglers were active in September—a sea trout of 12½ lbs. was caught in the Annas—but catches were well below average for this month, although the Ehen fished better than any other river in the south west. Most rivers were unsettled and well above normal in October.

It was an excellent spawning season with vast numbers of fish on the redds. The Annas and Calder had more fish than for some years and the Ehen held an exceptional number of sea trout, although they tended to be smaller than usual.

2. BROWN TROUT.

Angling Season : Eden and Esk Districts—20th March to 30th Sept.
Other Areas—20th March to 14th September.

In the Eden District fish generally were well recovered from spawning by the opening of the angling season but in the western part of the area they regained condition more slowly. Catches throughout the season in the Eden District were good and on the lower reaches of the river showed an improvement over recent years. This is attributed largely to the restocking programme of the Board and the

Carlisle Angling Association. Complaints were received from some Ullswater anglers that a few of the less considerate water skiers on the lake interfered with their sport.

There were few trout anglers on the rivers in the Western Division in the early part of the season. Cold winds and adverse conditions were against successful fishing and of the fish caught many were in poor condition. Better weather brought and improvement and catches from the lakes and the Ellen in particular were more encouraging. Although trout fishing in some parts of the Western Division has improved over recent years, the rivers in that part of the area do not have the natural conditions to enable them to hold large trout stocks. The Keswick Angling Association continued with its activities to try and improve the trout fishing on their waters.

There was a marked increase in the number of trout licences issued.

3 . FRESHWATER FISH.

The Eden and the Esk contain fairly substantial numbers of chub and dace, with some pike and a number of grayling and most of the lakes have perch and pike. The Board's fishery activities are primarily directed towards the preservation and improvement of game fish and consequently the removal of coarse fish is encouraged. Licences are not required to fish for these fish and the Board's bailiffs in the Eastern Division undertake the removal of coarse fish from the rivers when circumstances permit. Visiting anglers are encouraged to take the fish away for their own waters and a number of riparian owners have co-operated.

4. FISH DISEASE AND MORTALITY.

Disease amongst migratory fish was much less evident, no doubt due to the higher water levels enabling the fish to spread out more and thereby avoid congestion in the lower reaches.

At the beginning of July, 1961, about 600 trout died in the River Ive, a tributary of the River Caldew. These deaths were attributed to a discharge containing silage effluent.

Early in September, 1961, a mortality of migratory fish in the River Liddle was suspected as being caused by Cymag.

In January, 1962, a few fish died in the River Caldew in Carlisle. These deaths apparently occurred as a result of an accidental discharge from the Gas Works following a fractured pipe caused by severe frost.

The number of dead kelts removed after spawning was much less than usual.

5. FISH HATCHERY.

Approximately 700,000 salmon ova was taken from Eden salmon and laid down in the Hatchery in November. Only a very small quantity of sea trout ova was obtained. As native brown trout were not available for stripping the Board purchased 50,000 ova from a commercial hatchery.

The hatch from ova was very successful and the following plantings of unfed fry were to be made in April, 1962:—

Salmon	River Eden District ...	550,000 approx.
	River Irt District ...	50,000 „
	River Ehen District ...	10,000 „
	River Calder District ...	10,000 „
Brown Trout :	River Waver District ...	10,000 „
	River Wampool District ...	10,000 „
	River Caldew District ...	5,000 „
	River Eden District ...	7,500 „
	River Ellen District ...	10,000 „
	River Derwent District	7,500 „

A number of salmon fry were again to be retained in the ponds at the Hatchery. The fry placed in these ponds in April, 1961, have progressed very satisfactorily.

The Board appreciates the co-operation of fishery owners and lessees in allowing fish to be taken for stripping.

6. FISHERIES PROTECTION.

A Divisional Inspector and seven bailiffs were employed full time in the Eastern Division and a Divisional Inspector and six bailiffs were employed in the Western Division. The Inspectors and bailiffs were stationed as follows:—

EASTERN DIVISION.

Inspector	Kirkoswald.
Bailiffs	Longtown, Carlisle (2), Corby Hill, Eamont Bridge, Appleby, Brough Sowerby.

WESTERN DIVISION.

Inspector	Seaton, near Workington.
Bailiffs	Holmrook, Moor Row, Camerton (2), Cockermouth, Keswick.

Students were employed as temporary bailiffs from the beginning of July to mid-September on the River Derwent and in South West Cumberland.

The Board again records its appreciation of the services rendered by honorary bailiffs.

The total number of offences reported during the year was 150. Legal proceedings were taken in 100 cases and letters of warning were sent to 24 offenders. No action was taken on the remainder.

7. BYELAWS.

After consultation with the Earl of Lonsdale's Estates and the Solway Haaf Net Fishers' Association a byelaw was made for the purpose of defining the words "Old Sandsfield" as used in the byelaws.

A meeting was held with the Carlisle Angling Association regarding their objection to the proposed byelaw relating to mesh sizes of haaf nets in the Solway. The objection was maintained and the Ministry held a public inquiry on 29th January, 1962. The Minister's decision had not been made known at the end of March.

The Board made byelaws prohibiting netting of trout (other than migratory trout) in all rivers and lakes; altering the close season for fishing for char in Buttermere and Crummock Water to the period 1st November to 30th June following; and revoking the byelaws which prohibited fishing below Netherhall Weir on the River Ellen and below the weir in the Fitz Park at Keswick (these two weirs no longer being obstructions).

Consideration was given to the use, by some anglers, of bubble floats whilst fishing with rod and line and the Board was recommended to prohibit their use.

8. MANCHESTER CORPORATION WATERWORKS.

The Board petitioned against the Manchester Corporation's Bill which included clauses to enable the Corporation to take water from Ullswater. Many other bodies also lodged petitions and the Waterworks clauses were deleted from the bill by the House of Lords on 8th February, 1962.

Discussions were held with Manchester Corporation regarding the reservoir to be constructed in Wet Sleddale and the compensation water discharge. A recommendation was made to the Minister that the reservoir dam should be exempted from the provisions of Section 19 of the Salmon and Freshwater Fisheries Act, 1923, and such exemption has been given.

9. CORMORANTS.

It was decided to increase the bounty for the destruction of Cormorants from 2/6d. to 10/- per bird.

10. DRIFT NETTING.

Representations were made to the River Boards' Association that the strongest possible action be taken in association with other bodies to produce the necessary measures to control the problem of drift netting in the sea.

II. ESTIMATED NUMBER AND GROSS WEIGHT OF SALMON AND MIGRATORY TROUT CAUGHT DURING THE SEASON.

	No.	Salmon Weight	Migratory Trout No. Weight
(a) With Nets and Fixed Engines	2,456	26,649 lb.	Not known
(b) With Rod and Line ...	3,308	37,241 lb.	Not known
Total Number of Salmon Licences Issued ...			4,276
Number of Returns Received :			
Returns showing fish taken ...			917
'Nil' Returns ...			1,466

III. LICENCES ISSUED.

Description of Licence	Salmon			Trout and Char		
	No. Issued	Rate		No. Issued	Rate	
WHOLE AREA						
		£	s.	d.		£ s. d.
Rod and Line	27	10	10	0	77	2 0 0
RIVER ESK (BORDER) DISTRICT						
(a) Rod and Line	67	5	0	0	289	1 0 0
	25	1	15	0	104	7 6
	353	10	0		56	5 0
					749	2 6
(b) General Licences ...	1	37	10	0		
	1	20	0	0		
RIVER EDEN DISTRICT						
(a) Instruments other than Rod & Line, viz :						
Coops	3	50	0	0		
Draft Nets	4	40	0	0		
Hang Nets	6	25	0	0		
Haaf Nets	165	5	5	0		
(b) Rod and Line	112	7	0	0	2,451	1 0 0
	284	4	0	0	1,512	7 6
	3	3	0	0	1,207	5 0
	102	2	10	0	4,552	2 6
	634	15	0			
(c) General Licences ...	1	77	16	0	1	6 6 0
	1	65	0	0	1	5 0 0
	1	46	13	4		
	1	38	18	0		
	2	35	0	0		
	1	31	2	6		
	1	23	6	8		
	1	5	0	0		
RIVER ELLEN AND ALLONBY BAY DISTRICT						
Rod and Line					329	10 0
					179	5 0

RIVER DERWENT DISTRICT

(a) Instruments other than Rod & Line, viz :

Coops	...	...	1	50	0	0		
(b) Rod and Line	...	...	93	5	0	0	388	1 0 0
			188	4	0	0	948	7 6
			19	2	0	0	563	5 3
			218	1	10	0	1,144	2 6
			183	1	0	0		

SOUTH WEST CUMBERLAND DISTRICT

Trout and Char
(other than
Migratory Trout)

(a) Instruments other than Rod & Line, viz :

Garth	...	...	1	50	0	0		
(b) Rod and Line	...	...	733	2	10	0	77	1 0 0
			653	1	0	0	311	7 6
			391		10	0		

IV. APPROXIMATE NUMBER OF MEN ENGAGED IN COMMERCIAL SALMON AND TROUT FISHING.

Nets (of various kinds)	Licence Holders	175
	Endorsees	25
Fixed Engines	Licence Holders	3
	Endorsees	12

V. NUMBER OF PROSECUTIONS INSTITUTED DURING THE FINANCIAL YEAR WITH NATURE OF OFFENCE AND RESULT OF ACTION.

No. of Cases	Nature of Offence	Result of Action
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RIVER EDEN DISTRICT

7	Fishing with prohibited bait	...	2 Fined £2 each plus £2-12-6 fee each
			1 Fined £2 plus £1-1-0 fee
			3 Fined £1 each plus £3-3-0 fee each
			1 Fined £1 plus £1-1-0 fee
2	Taking undersized trout	.. ...	2 Absolute Discharge

RIVER ELLEN AND ALLONBY BAY DISTRICT

9	Fishing with unlicensed instrument	(Hands) (Net)	3 Fined £1 each plus 10/6 fee each
			2 Fined £5 each plus 10/6 fee each
			1 Dismissed.

- | | | |
|---|--------------------------------------|--|
| | (Rod & Line) | 1 Fined £10 plus £2-2-0 fee |
| | | 1 Fined £10 (Licence revoked for
12 months) |
| | | 1 Fined 10/- |
| 4 | Refusing to give name and address | 3 Fined £3 each plus 10/6 fee each |
| | | 1 Fined £2 |
| 3 | Fishing within 50 yds. of weir crest | 1 Fined £5 plus £2-2-0 fee |
| | | 2 Fined £1-10-0 each plus
£1-1-0 fee each |

RIVER DERWENT DISTRICT

- | | | |
|----|--|---|
| 35 | Fishing with unlicensed instrument (Hands)
(Rod & Line) | 1 Fined £3 plus £2-2-0 fee |
| | | 3 Fined £5 each plus £2-2-0 fee each |
| | | 1 Fined £5 plus £1-1-0 fee |
| | | 1 Fined £3 plus £1-1-0 fee |
| | | 1 Fined £2 plus £2-2-0 fee |
| | | 1 Fined £1 plus £1-1-0 fee |
| | | 1 Fined £1 plus £1-0-0 fee |
| | | 3 Fined 10/- each plus £2-2-0 fee each |
| | | 3 Fined 10/- each plus £2-0-0 fee each |
| | | 15 Fined 10/- each plus £1-1-0 fee each |
| | | 2 Fined 10/- each plus £1-0-0 fee each |
| | | 1 Fined 10/- plus 10/- fee |
| | | 1 Fined 10/- |
| | | 1 Dismissed |
| 2 | Fishing with illegal instrument ... | 1 Fined £15 plus £1-11-6 fee |
| | | 1 Fined £10 plus £1-11-6 fee |
| 2 | Fishing with prohibited bait ... | 1 Fined £1 plus £2-2-0 fee |
| | | 1 Fined 10/- plus 10/- fee |
| 1 | Fishing with two rods ... | 1 Dismissed |
| 1 | Fishing for salmon during annual close season ... | 1 Fined £3 plus £5-5-0 fee |
| 1 | Fishing for trout during annual close season ... | 1 Fined £5 plus £2-2-0 fee |
| 3 | In possession of salmon during annual close season ... | 2 Fined £15 each plus £2-2-0 fee each |
| | | 1 Fined £5 |
| 1 | In possession of unclean fish ... | 1 Fined £5 |
| 1 | Refusing name and address ... | 1 Dismissed |

SOUTH WEST CUMBERLAND DISTRICT

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|----|------------------------------------|---------------------------------------|
| 20 | Fishing with unlicensed instrument | 2 Fined £3 each plus £2-2-0 fee each |
| | | 2 Fined £2 each plus £3-3-0 fee each |
| | | 8 Fined £2 each plus £2-2-0 fee each |
| | | 2 Fined £2 each plus £1-11-6 fee each |
| | | 5 Fined £2 each plus £1-1-0 fee each |
| | | 1 Conditional Discharge |

3	Fishing with illegal instrument ...	2	Fined £5 each plus £2-2-0 fee each
		1	Fined £2
2	Fishing with illegal bait	1	Fined £2 plus £2-2-0 fee
		1	Fined £2
1	Fishing with more than one rod and line	1	Fined £2
2	Fishing for trout during annual close season	2	Fined £2 each plus £1-1-0 fee each

VI.

(a)	Total Annual Value of Assessed Fisheries	...	...	£611 10 0
(b)	Rate in the £ imposed by the Board	...	...	Nil

APPENDIX I.

RETURNS OF SALMON CAUGHT

(a) RIVER EDEN DISTRICT:—

(i) Rod and Line.

SALMON

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Total No.	Total Weight	Average Weight
1941	28	94	248	160	99	53	9	6	10	19	726	11,008 lb.	15.15 lb.
1942	60	238	323	263	134	54	8	4	18	37	1,139	19,238 lb.	16.89 lb.
1943	84	238	145	217	163	53	59	60	70	43	1,132	17,933 lb.	15.84 lb.
1944	83	268	298	284	107	43	26	5	34	55	1,203	17,735 lb.	14.74 lb.
1945	35	228	267	147	95	45	13	4	21	19	874	13,737 lb.	15.72 lb.
1946	20	113	189	105	33	19	17	3	25	56	580	8,735 lb.	15.06 lb.
1947	53	61	120	317	229	55	32	10	19	45	941	13,809 lb.	14.68 lb.
1948	115	290	296	414	194	91	95	36	102	73	1,706	24,151 lb.	14.16 lb.
1949	94	267	519	415	165	68	23	16	8	5	1,580	26,807 lb.	16.97 lb.
1950	96	276	329	323	203	38	17	12	21	20	1,335	19,576 lb.	14.66 lb.
1951	103	281	319	407	261	55	30	18	50	22	1,546	24,593 lb.	15.91 lb.
1952	110	304	394	331	169	66	24	28	56	83	1,565	22,679 lb.	14.49 lb.
1953	78	244	291	306	128	58	22	37	46	—	1,210	17,834 lb.	14.74 lb.
1954	114	224	503	383	252	109	58	52	76	—	1,771	23,867 lb.	13.48 lb.
1955	177	402	471	365	320	62	26	25	72	—	1,920	28,629 lb.	14.91 lb.
1956	166	200	394	244	182	65	35	49	154	—	1,489	20,236 lb.	13.58 lb.
1957	220	485	533	327	196	41	40	61	136	55	2,094	27,228 lb.	13.00 lb.
1958	193	383	373	315	278	97	52	64	81	38	1,874	24,411 lb.	13.03 lb.
1959	195	331	531	372	227	52	23	12	30	26	1,799	23,784 lb.	13.22 lb.
1960	211	317	410	283	118	26	23	58	69	104	1,619	22,525 lb.	13.91 lb.
1961	153	361	387	272	147	36	31	37	73	38	1,535	20,165 lb.	13.14 lb.

RETURNS OF SALMON CAUGHT —continued

(a) RIVER EDEN DISTRICT :—

(ii) Nets and Fixed Engines.

SALMON

(exclusive of Haaf Nets up to and including 1955)

Year	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total No.	Total Weight	Average Weight
1941	75	72	75	143	83	189	272	—	909	12,181 lb.	13.40 lb.
1942	144	151	234	318	77	150	101	—	1,175	16,318 lb.	13.89 lb.
1943	93	264	199	39	57	124	180	—	956	13,103 lb.	13.71 lb.
1944	130	223	200	132	91	85	181	—	1,042	13,966 lb.	13.40 lb.
1945	96	191	57	106	28	81	131	—	690	9,308 lb.	13.49 lb.
1946	56	135	168	168	60	83	75	—	745	9,347 lb.	12.55 lb.
1947	15	18	67	98	69	145	369	—	781	8,179 lb.	10.47 lb.
1948	71	155	124	151	154	243	178	—	1,076	13,855 lb.	12.88 lb.
1949	319	133	107	137	136	287	178	—	1,297	17,125 lb.	13.20 lb.
1950	51	64	55	93	223	128	75	—	689	8,012 lb.	11.63 lb.
1951	55	76	101	87	105	192	186	—	802	9,258 lb.	11.88 lb.
1952	123	103	155	118	151	389	168	—	1,207	13,468 lb.	11.16 lb.
1953	94	66	100	131	171	234	131	—	927	10,394 lb.	11.21 lb.
1954	102	142	221	141	90	200	63	—	959	10,891 lb.	11.36 lb.
1955	68	109	196	107	135	440	491	—	1,546	15,930 lb.	10.30 lb.
1956	104	194	183	221	334	534	151	9	1,730	19,398 lb.	11.21 lb.
1957	73	107	145	177	393	317	338	7	1,557	14,950 lb.	9.60 lb.
1958	98	127	193	183	213	391	378	18	1,601	16,744 lb.	10.46 lb.
1959	340	169	189	316	343	383	830	22	2,592	28,408 lb.	10.96 lb.
1960	33	69	206	253	285	465	640	30	1,981	20,422 lb.	10.31 lb.
1961	84	246	123	158	435	710	483	33	2,272	24,872 lb.	10.95 lb.

RETURNS OF SALMON CAUGHT ---continued

(b) RIVER ESK (BORDER) DISTRICT. (To Scottish Border only).

(i) Rod and Line.

SALMON

Year	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Total No.	Total Weight	Average Weight
1953	13	22	27	16	4	6	12	20	27	147	1,948 lb.	13.25 lb.
1954	27	75	40	26	8	8	9	18	30	241	2,982 lb.	12.37 lb.
1955	43	102	55	23	6	2	—	11	99	341	4,730 lb.	13.87 lb.
1956	8	17	19	23	5	5	18	47	76	218	2,708 lb.	12.42 lb.
1957	38	41	40	17	9	15	28	98	73	359	3,778 lb.	10.52 lb.
1958	62	62	41	36	11	7	29	39	66	353	4,166 lb.	11.80 lb.
1959	31	70	36	32	4	11	4	26	84	298	3,652 lb.	12.26 lb.
1960	24	55	42	16	14	14	23	56	66	310	3,596 lb.	11.60 lb.
1961	41	29	32	23	9	9	14	30	43	230	2,989 lb.	12.99 lb.

(ii) Nets and Fixed Engines.

SALMON

Year	Feb.	Mar.	Apr.	May	June	July	Aug.	Total No.	Total Weight	Average Weight
1954	9	20	12	46	45	31	3	166	1,997 lb.	12.03 lb.
1955	9	3	17	6	11	47	37	130	1,141 lb.	8.77 lb.
1956	—	—	—	—	—	—	—	—	—	—
1957	—	—	—	—	—	—	—	—	—	—
1958	—	—	—	—	—	—	—	—	—	—
1959	—	—	—	—	—	—	—	—	—	—
1960	—	—	—	—	—	—	—	—	—	—
1961	—	—	—	—	—	—	—	—	—	—

RETURNS OF SALMON CAUGHT —continued

(c) RIVER DERWENT DISTRICT

(i) Rod and Line.

SALMON

Year	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Total No.	Total Weight	Average Weight
1950	—	7	6	81	165	137	142	29	567	—	—
1951	4	8	4	93	152	183	86	15	545	—	—
1952	14	15	37	140	200	123	223	76	828	8,405 lb.	10.15 lb.
1953	5	10	20	168	153	201	215	—	772	7,540 lb.	9.76 lb.
1954	14	9	90	213	337	329	190	—	1,182	12,317 lb.	10.42 lb.
1955	8	19	47	63	14	192	425	—	768	6,074 lb.	7.91 lb.
1956	3	16	18	129	604	468	512	—	1,750	15,996 lb.	9.14 lb.
1957	7	16	18	135	445	541	257	—	1,419	11,119 lb.	7.84 lb.
1958	14	45	60	145	521	603	588	—	1,976	17,981 lb.	9.10 lb.
1959	14	29	22	54	35	33	320	—	507	4,732 lb.	9.33 lb.
1960	21	9	23	116	227	406	369	—	1,171	9,618 lb.	8.21 lb.
1961	10	20	32	205	220	237	302	—	1,026	10,260 lb.	10.00 lb.

(ii) Nets and Fixed Engines.

SALMON

1953	Total Number	— 296 ;	Total Weight	2,716 lb.
1954	Total Number	— 311 ;	Total Weight	2,555 lb.
1955	Total Number	— 112 ;	Total Weight	1,059 lb.
1956	Total Number	— 229 ;	Total Weight	2,330 lb.
1957	Total Number	— 402 ;	Total Weight	2,717 lb.
1958	Total Number	— 662 ;	Total Weight	6,262 lb.
1959	Total Number	— 574 ;	Total Weight	5,506 lb.
1960	Total Number	— 438 ;	Total Weight	3,684 lb.
1961	Total Number	— 148 ;	Total Weight	1,450 lb.

RETURNS OF SALMON CAUGHT —continued

(d) SOUTH WEST CUMBERLAND DISTRICT

(i) Rod and Line.

SALMON

Year	Apr.	May	June	July	Aug.	Sept.	Oct.	Total No.	Total Weight	Average Weight
1953	—	—	5	69	105	91	35	305	2,213 lb.	7.25 lb.
1954	—	—	20	34	64	54	57	229	1,833 lb.	8.00 lb.
1955	—	2	7	19	20	42	56	146	1,052 lb.	7.20 lb.
1956	1	—	8	58	172	99	55	393	2,755 lb.	7.00 lb.
1957	1	2	11	116	181	219	88	618	4,025 lb.	6.51 lb.
1958	4	13	49	170	391	367	303	1,297	9,063 lb.	7.00 lb.
1959	1	7	29	69	52	120	182	460	3,641 lb.	7.91 lb.
1960	1	1	29	84	163	140	81	499	3,676 lb.	7.37 lb.
1961	5	17	57	99	154	77	108	517	3,827 lb.	7.40 lb.

(ii) Nets and Fixed Engines.

SALMON

1953	Total Number	— 29 ;	Total Weight	254 lb.
1954	Total Number	— 18 ;	Total Weight	149 lb.
1955	Total Number	— 83 ;	Total Weight	555 lb.
1956	Total Number	— 36 ;	Total Weight	196 lb.
1957	Total Number	— 237 ;	Total Weight	1,135 lb.
1958	Total Number	— 144 ;	Total Weight	679 lb.
1959	Total Number	— 183 ;	Total Weight	1,098 lb.
1960	Total Number	— 90 ;	Total Weight	570 lb.
1961	Total Number	— 36 ;	Total Weight	327 lb.

PART VI

PREVENTION OF POLLUTION

SECTION I. QUALITY OF WATER.

1. RIVER EDEN AND ITS TRIBUTARIES.

Over most of the lengths of these rivers the quality of the water is of reasonable standard with the upstream lengths of high standard. There are few towns on the banks of the rivers upstream of Carlisle and practically no trade effluent. The principal sources of pollution are from sewage effluent either from isolated farms or from local authority sewage disposal works. But few of these are serious and the effects are not of lasting character. There is, as would be expected, rather more pollution of the River Eden in Carlisle and also of its main tributary—the River Caldew. This arises to some extent from trade effluents, but there is also a large discharge of sewage effluent from the Carlisle Corporation's Sewage disposal works at Willowholme.

2. RIVER ESK (BORDER) AND RIVER LYNE.

The River Esk flows from a large catchment in South Scotland. The quality of the water is generally good. Gravel workings near Longtown cause a certain amount of suspended matter to be carried downstream. At Longtown there is still pollution from sewage effluent, but this will soon be rectified by the completion of the new sewage disposal works. The River Lyne, which joins the River Esk downstream of Longtown is also free of any serious pollution.

3. RIVER DERWENT AND ITS TRIBUTARIES.

The River Derwent flows from the centre of the Lakeland Mountains and its water is of an exceptional high quality as it comes from Borrowdale and into Derwentwater. There is some pollution from the Keswick U.D.C. Sewage Disposal Works and also from the works of Cockermouth Urban District Council. There are also other small sources of sewage pollution. In the tidal length through Workington there is more pollution from industrial sources and from the harbour.

The River Greta, joining the main stream at Keswick, together with the River Glenderamackin and the St. Johns Beck from Thirlmere, has water of good quality with few sources of pollution.

The River Cocker flowing from Crummock Water to join the River Derwent at Cockermouth, is fast flowing, free from pollution and with water of a high standard of purity.

4. NORTH WEST CUMBERLAND RIVERS.

These discharge into the Solway Firth between the River Eden and the River Derwent. The main streams are the Rivers Waver and Wampool entering the sea north of Silloth, and the River Ellen which flows out through Maryport Harbour. These rivers are generally more slow flowing through agricultural country. The Rivers Waver and Wampool carry a fair amount of material in suspension and are polluted in places with sewage effluents though nowhere to a serious extent. The River Ellen is mainly free of pollution except immediately downstream of Aspatria and from time to time because of sewage pollution from a stream near Dearham; it is also somewhat polluted in the length through Maryport.

5. SOUTH WEST CUMBERLAND RIVERS.

In the north of this area there is still considerable pollution of the lower length of the River Ehen and its tributary, the River Keekle, both from industrial wastes and from sewage. There is also some pollution of the length of the River Calder through the Windscales Works of the United Kingdom Atomic Energy Authority. All the other rivers in this portion of the Board's area have water of high quality apart from isolated sources of pollution.

SECTION 2. STANDARDS APPLIED TO EFFLUENTS.

Although the Board has not adopted any standards it is usual to attach conditions to consents for new discharges in conformity with Royal Commission Standards.

SECTION 3. SAMPLES AND ANALYSES OF EFFLUENTS.

Samples have been submitted to the Public Analyst for analysis and report. During the year some ten samples have been the subject of report.

SECTION 4. SEWAGE AND TRADE EFFLUENTS.

There has been no great change during the year in the discharge of sewage and trade effluents which could significantly affect the quality of water.

In the period of twelve months ending the 31st March, 1962, the Board issued consents under Section 7(7) of the Rivers (Prevention of Pollution) Act, 1951, for

- (a) 27 new discharges from Septic Tanks in Rural Areas.
- (b) 1 discharge from Storm Water Overflow from Local Authority Sewer.
- (c) 2 discharges of treated effluent from new sewage disposal works of Local Authorities.
- (d) 1 altered outlet for discharge of trade effluent to tidal waters.
- (e) 1 new discharge of trade effluent (heated water).

SECTION 5. REMEDIAL ACTION.

The main concern of the Board has been to maintain the high standard of purity of the waters within its area, to remove the sources of pollution where they do exist, and to take the action necessary where there have been illegal discharges.

Local Authorities have been pressed to improve the standards of discharge of sewage effluent and where this sewage effluent has been of a grossly polluting nature every effort has been made, short of legal action, to achieve improvements. There are indeed signs that the local authorities are endeavouring to make those long needed improvements though there have been regrettably long delays in some places. The Border Rural District Council are constructing new disposal works at Longtown affecting the River Esk, have plans for new works at Rockcliffe on the tidal portion of the River Eden, and are preparing plans for new works at Warwick Bridge. The Penrith Rural District Council also have plans for new works at Lazonby and Kirkoswald. The North Westmorland Rural District Council propose new works at Bolton near Appleby. In the west of the area Millom Rural District Council are considering new sewage works for Drigg and Holmrook. The Ennerdale Rural District Council have rebuilt the small disposal Works at Moresby Parks and have in the hands of their Consulting Engineers plans for new sewage disposal works to take the place of the present completely overloaded works at Cleator and Cleator Moor.

SECTION 6. RESEARCH.

No research has been undertaken during the twelve months.

PART VII

OTHER GENERAL INFORMATION

PART VIII

INFORMATION ABOUT EXPENDITURE AND INCOME

(Issued subject to audit)

PART VIII: INFORMATION

Statement of Expenditure and Income on Revenue

TABLE

	Revenue Account £	Loan Account £	Grand Total £
EXPENDITURE			
LAND DRAINAGE AND WATER GAUGING :			
Capital Transactions :—			
Grant aided Works, etc. (For details see Tables II & III)	16,120		16,120
Non-Grant Aided Works, etc. (For details see Table II)	1,893		1,893
	18,013		18,013
 Revenue Transactions :—			
New Works & Impt. Schemes—			
Loan Charges—			
Principal Repaid	13,800		
Interest	7,731		21,531
Maintenance of Works—			
Watercourses	24,168		
Water Gauging	179		24,347
Contributions to Internal Drainage Boards (For details see Table VI)	—		—
Subsidiary Accounts—			
Motor Transport & Plant—			
Maintenance & Operating Costs	£ 5,200		
Carried forward	5,200	63,891	63,891

ABOUT EXPENDITURE AND INCOME

and Loan Accounts — Year ended 31st March, 1962

[

	Revenue Account £	Loan Account £	Grand Total £
INCOME			
LAND DRAINAGE AND WATER GAUGING :			
Capital Transactions :—			
Grant Aided Works—			
Loan Raised		—	—
Exchequer Grant—Schemes financed			
from Revenue	11,248		11,248
Contributions from Private Frontages, etc.	600		600
Non-Grant Aided Works—			
Sale of Motor Vehicles & Heavy Plant	660		660
	<hr/> 12,508	<hr/> —	<hr/> 12,508
Revenue Transactions :—			
New Works & Impt. Schemes—			
Exchequer Grants towards Loan Charges	15,475		15,475
Maintenance of Works—			
Contributions from :			
Private Frontages, etc.	381		381
Administrative Charges—			
Apportioned to & included in Capital			
Expenditure and subsidiary Revenue Accounts—			
Pollution Prevention	750		750
Rechargeable to :			
Local Authority	25		
Fisheries—Hatchery	50		75
	<hr/> 29,189	<hr/>	<hr/> 29,189
Carried forward	29,189		29,189

Statement of Expenditure and Income on Revenue

TABLE I—

		Revenue Account £	Loan Account £	Grand Total £
EXPENDITURE				
Brought forward		5,200	63,891	63,891
Loan Charges—				
Principal	1,630			
Interest	247			
Stores Oncost	41			
Debit Balance on Stores Account	32			
		7,150		
Deduct—				
Motor Transport & Plant—				
Hiring Charges	8,173			
Credit Balance—				
Light Plant, Tools & Equipment	67			
Oncost	304			
Rebate on Purchases	26			
		8,570	Cr. 1,420	Cr. 1,420
Estates—				
Rent, Rates & Ins.	£186	354		354
Repairs & Renewals	£168			
Administrative Charges—				
Staff Salaries, Insurance & Superannuation	9,305			
Travelling, Subsistence, etc.	1,502			
Office Accommodation	—			
Office Expenses—Engineer's Requisites	69			
Proportion of General Administrative Charges	6,749			17,625
General Charges		Cr. 140		Cr. 140
Other Items—Main River Survey		11		11
Total—LAND DRAINAGE		80,321		80,321
Carried forward		80,321		80,321

and Loan Accounts — continued.
continued

	Revenue Account	Loan Account	Grand Total
	£	£	£
INCOME			
Brought forward	29,189		29,189
Total—LAND DRAINAGE	<u>29,189</u>	<u> </u>	<u>29,189</u>
Carried forward	29,189		29,189

Statement of Expenditure and Income on Revenue

TABLE I—

	Revenue Account £	Loan Account £	Grand Total £
EXPENDITURE			
Brought forward	80,321		80,321
FISHERIES :			
Capital Transactions :—			
Non-Grant Aided Works (for details see Table II)	697		697
	697		697
Revenue Transactions :—			
Water Bailiffs & Inspectorate—			
Wages, Nat. Ins. & Superan.	9,886		
Travelling, Subsistence, etc.	333		
Clothing Allowance	120		
Cottages—Rents £94 } Repairs £35 }	129		
Interview Expenses & Medical Examinations	—		
Requisites	24		
Transport—Maintenance & Operating Costs	841		11,333
Maintenance & Development of Fisheries—			
Contributions to Re-stocking	30		
Fish Hatchery	324		
Removal of Shoal £119 }	150		
Other £31 }			504
Administrative Charges—			
Office Expenses—			
Postages £147 ; Printing, Station- ery and Advertising £176 ; Tele- phones £47	370		370
Legal & Parliamentary Expenses, etc.—			
Prosecutions	313		313
Carried forward	13,217		13,217
Carried forward	80,321		80,321

and Loan Accounts — continued.
continued

	Revenue Account £	Loan Account £	Grand Total £
INCOME			
Brought forward	29,189		29,189
FISHERIES :			
Capital Transactions :—			
Non-Grant Aided Work—Sale of Motor Vehicle	300		300
	<u>300</u>		<u>300</u>
Revenue Transactions :—			
Fishing Licences—			
Salmon & Migratory Trout	9,788		
Trout (including Migratory Trout) ...	5,732		
Trout (excluding Migratory Trout) ...	194		15,714
Administrative Charges recovered			
(Pollution Prev.)	100		100
Other Items—			
Bailiffs' Cottages—Rent & Rates ...	115		
Interest on Investments	203		
Penalties—Advocates' Fees, Costs, etc.	144		
Water Abstraction	35		
Miscellaneous	59		556
Carried forward	<u>16,670</u>		<u>16,670</u>
Carried forward	29,189		29,189

Statement of Expenditure and Income on Revenue

TABLE 1—

	Revenue Account £	Loan Account £	Grand Total £
EXPENDITURE			
Brought forward	80,321		80,321
Brought forward	13,217		13,217
Other Items—			
Commission on Licences	580		
Insurances £45; Subscriptions £7; } Miscellaneous £115)	167		
Proportion of General Administrative Charges	2,145		2,892
General Charges	Cr. 45		Cr. 45
Other Items	—		—
Total—FISHERIES	16,064		16,064
POLLUTION PREVENTION :			
Capital Transactions :—			
Non-Grant Aided Works (For details see Table II)	—		—
Revenue Transactions :—			
Analysts' Fees	52		52
Administrative Charges—			
Office Expenses	5		
Other Items	13		
Proportion of General Administrative Charges	306		324
Carried forward	376		376
Carried forward	96,385		96,385

and Loan Accounts — continued.
continued

				Revenue Account	Loan Account	Grand Total
				£	£	£
INCOME						
Brought forward	...	...		29,189		29,189
Brought forward	...	...		16,670		16,670
Total—FISHERIES	...	...		<u>16,670</u>		<u>16,670</u>

POLLUTION PREVENTION:

Capital Transactions :—

Non-Grant Aided Works
-----------------------	-----	-----	-----	-----

Revenue Transactions :—

Carried forward	...	...	<u> </u>	<u> </u>	<u> </u>
Carried forward	...	...	45,859		45,859

Statement of Expenditure and Income on Revenue

TABLE I—

	Revenue Account £	Loan Account £	Grand Total £
EXPENDITURE			
Brought forward	96,385		96,385
Brought forward	376		376
General Charges	Cr. 6		
Other Items—			
Allocation of General Charges from Land Drainage & Water Gauging	750		
Allocation of Charge from Fisheries ...	100		844
 Total—POLLUTION PREVENTION ...	 1,220	 	 1,220
GENERAL CHARGES :			
Subscriptions	79		
Members' Allowances & Chairman's Remuneration	479		
Insurances	31		
Audit Stamp Duty	250		
Other Items	27		866
 Total—GENERAL CHARGES ...	 866	 	 866
Carried forward	98,471		98,471

continued

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Statement of Expenditure and Income on Revenue

TABLE I—

	Revenue Account £	Loan Account £	Grand Total £
EXPENDITURE			
Brought forward	98,471		98,471
GENERAL ADMINISTRATIVE CHARGES (not directly allocated to Services)			
Salaries and Allowances—			
Salaries, Nat. Insurance, Superannuation, { (including equal annual charge) ... }	7,371		
Travelling, Subsistence, etc.	176		
Office Accommodation—			
Rents & Rates £168; Heating, Lighting & Cleaning £447; Repairs, Maintenance and Insurance £91) }	706		
Loan Charges—Principal	398		
Interest	19		
Office Expenses—			
Furniture & Equipment	294		
Postages £137; Printing, Stationery and Advertising £519; Telephones £237 ... }	893		
Consulting Engineer, Legal & Parliamentary Costs	1,182		
Other Items	49		11,088
Total—GENERAL ADMINISTRATIVE CHARGES	11,088		11,088
Carried forward	109,559		109,559

and Loan Accounts — Year ended 31st March, 1962
continued

	Revenue Account £	Loan Account £	Grand Total £
INCOME			
Brought forward	46,725		46,725
GENERAL ADMINISTRATIVE CHARGES :			
Rechargeable Items—			
Recovered by percentage on cost of Rechargeable Works	143		
Charged to Internal Drainage Boards administered by the Board	1,745		1,888
Allocated to Main Services, etc.—			
Land Drainage and Water Gauging ...	6,749		
Fisheries	2,145		
Pollution Prevention	306		9,200
 Total—GENERAL ADMINISTRATIVE CHARGES	 11,088	 	 11,088
 Carried forward	 57,813	 	 57,813

Statement of Expenditure and Income on Revenue

TABLE I—

			Revenue Account £	Loan Account £	Grand Total £
EXPENDITURE					
Brought forward	...	...	109,559		109,559
GENERAL					
Capital Transactions :—					
Non-Grant Aided Works (For details see Table II)	...	...	—		—
Revenue Transactions :—					
Rechargeable Works	...	...	861		861
Total—GENERAL	...	...	861		861
GRAND TOTALS	...	...	110,420		110,420
BALANCE—Income in excess of Expenditure					
for the year	...	...	2,773		2,773
			£113,193		£113,193

and Loan Accounts — Year ended 31st March, 1962
continued

	Revenue Account £	Loan Account £	Grand Total £
INCOME			
Brought forward	57,813		57,813
GENERAL :			
Capital Transactions :—			
Non-Grant Aided Works	—		—
Revenue Transactions :—			
Rechargeable Works	861		861
Precepts—			
Councils of Counties and County Bor- oughs (for details see Table IV) ...	52,331		
Internal Drainage Boards (for details see Table IV)	2,188		54,519
Total—GENERAL	<u>55,380</u>		<u>55,380</u>
GRAND TOTALS	113,193		113,193
	<u>£113,193</u>		<u>£113,193</u>

TABLE II.
Particulars of Transactions during the year in respect of Capital Works, etc. financed by Revenue

Starting Date	Probable Date of Completion	Brief Description of Item	Total Estimated Cost	EXPENDITURE	
				During year covered by report	Total to 31st March, 1962
		LAND DRAINAGE & WATER GAUGING	£	£	£
		Grant Aided Expenditure—			
September, 1961	June, 1962	River Lyvennet—Maulds Meaburn	2,900	2,583	2,583
August, 1959	Summer, 1962	River Patteril—Carlisle—Impt. Scheme	27,136	12,202	25,257
March, 1962	October, 1962	River Waver—Lessonhall	7,000	293	293
		Water Gauging Stations—			
March, 1960	July, 1961	River Derwent at Camerton	1,200	15	1,208
January, 1961	February, 1962	River Eamont at Udford	1,000	31	843
March, 1961	March, 1962	River Esk at Netherby	1,000	724	934
March, 1962	July, 1962	River Lowther at Eamont Bridge	1,550	272	272
		Non-Grant Aided Expenditure—		16,120	
		2 Land Rovers		1,652	
		Tractor Tractor		241	
				1,893	
		TOTAL—Land Drainage & Water Gauging		18,013	
		FISHERIES			
		Land Rover		697	
		GRAND TOTAL—Capital Expenditure financed from Revenue Account		£18,710	

TABLE III.

**Particulars of Transactions during the year in respect of
Capital Works Financed by Loans**

NONE

TABLE IV.

PRECEPT ON (a) COUNCILS OF COUNTIES AND COUNTY BOROUGHS AND
(b) INTERNAL DRAINAGE BOARDS.

				Acreage within River Board Area	Amount in £ of Precept	Estimated Product of a Penny Rate £	Rateable Value at 1/4/1960 £	Amount of Precept £
(a) County Councils :								
	Cumberland	...	...	882,105	—	8,990.5	2,157,738	35,602
	Westmorland	...	...	237,066	—	613.0	147,159	2,428
	Northumberland	...	...	12,480	—	9.5	2,278	37
	North Riding of Yorkshire	...	...	512	—	—	—	—
				1,132,163	—	9,613.0	2,307,175	38,067
County Borough :								
	Carlisle	...	...	6,092	—	3,615.75	864,513	14,264
TOTALS				1,138,255	3.95d.	13,228.75	3,171,688	52,331
(b) Internal Drainage Boards :								
	Allonby Bay and River Ellen	...	...	...	...	...	...	619
	Brunstock Beck	...	...	...	...	...	...	113
	River Marron	...	...	...	...	...	...	25
	Upper Derwent	...	...	...	...	...	...	554
	Waver and Wampool	...	...	...	...	...	...	877
GRAND TOTAL								£54,519

TABLE V.
LOAN STATEMENT

(a) Loan Raised and Repaid during the year :	£
Total loans outstanding at beginning of year—1st April, 1961	238,174
Add—Loans raised during the year (for details see Table III)	—
	<hr/>
	238,174
Deduct—Principal repaid during the year	15,828
	<hr/>
Total loans outstanding at the end of the year—31st March, 1962	<u>£222,346</u>
(b) Sinking or Redemption Funds	None.

TABLE VI.
CONTRIBUTIONS TO INTERNAL DRAINAGE BOARDS

Nil.